

EMERGENT POWER SUPPLY SYSTEM AND METHOD OF ACHIEVING INPUT CURRENT
BALANCE IN SUCH SYSTEM

ABSTRACT OF THE DISCLOSURE

An emergent power supply system capable of automatically balancing the input currents of a multiplicity of backup power supply modules therein is addressed. The emergent power supply system according to the present invention includes a multiplicity of backup power supply modules, wherein each of the multiplicity of backup power supply modules includes an input current balancer capable of collecting an operation status information of the backup power supply modules, generating an average of the operation status information, generating a differential value by comparing the average of the operation status information with an operation status information associated with a backup power supply modules thereof, amplifying the differential value in accordance with a predetermined proportion, and instructing an output voltage stabilizer of a rectifier to generate a rectifying control signal according to an amplified differential value to control the on/off operations of the rectifier within the backup power supply modules.